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ANARTS now has a web site at www.anarts.com.au

where information about the society can be found, as well as

the weekly broadcast texts.

Views expressed in this news bulletin are not necessarily

those of the Broadcast Officer, the Relay Officers, or of

the Society.

Items in this broadcast include

1. Cols column

2. IPS REPORT

3. VK2SG RTTY DX report

4. OPDX News

6. Anarts Information

A.N.A.R.T.S. News Bulletin 1397 for 21st of May 2006

Col's Column

Propagation of Radio Waves.

The effect of the Ionosphere on the Sky Wave.

The propagation of radio waves through the ionosphere is similar in

many respects to the water-air analogy that was the subject of last

weeks column.

Each ionised layer, because of the variation in electron density through

the layer, presents a constantly changing medium for the passage of a

radio wave which enters the layer. The velocity of the wave in the ionised

layer increases as the electron density increases, and therefore increases

with the depth of penetration of the wave into the layer.

The conditions required to return a sky wave to earth can be expressed in

terms of the refractive index of the ionised layer.
Although somewhat

affected by the earths magnetic field and collisions
between vibrating

electrons and gas molecules, the refractive index is
determined primarily

by the electron density and the frequency of the radio
wave.

Unfortunately, the equation determining the refractive
index cannot be

expressed in RTTY mode. However, the principle has been
stated in the

previous paragraph, and is basically the same as the
water-air equation.

As pointed out last week, the smaller the refractive
index, the greater

is the degree of bending, and hence, as the wave train
enters the ionised

layer, the upper portions of the wave fronts are bent or
refracted to a

greater extent than the lower portions. since the upper
portions are in an

area of lower refractive index (with a greater velocity).

This part of the article will continue next week

73's Colin VK2CTD.

IPS Weekly Solar and Geophysical Report 12/18th May

SUMMARY

Date 12 13
14 15 16
17 18

10cm flux 76 74
72 72 72
72 73

AFr index 10 9
6 3 0
4 12 est

Aaus index 11
7 6 3
2 3 11 est

T index 26 31
27 23 18
24 19

Solar flare activity was very low all week.

Geomagnetic activity observed for the Australian Region
was quiet to

unsettled on 12/14th and 18th and quiet on 15/17th.

Southern Australian Ionospheric F2 critical frequencies
were near

predicted all week except for the 17th when frequencies
were near

predicted to 15 per cent enhanced.

Forecast for 19/25th May

Solar activity is expected to range from very low to low.
There are

currently no active regions on disk, but it is possible
returning

region 875, which is due to appear in the next few days,
may bring

with it an increase in solar activity as it was the source
of M-class events on its last transit.

Geomagnetic sees quiet to unsettled conditions expected,
with isolated

active periods early in this forecast week - as solar
wind parameters

remain elevated due to a geoeffective coronal hole.

Frequencies should be near predicted monthly values, with
some depressed

periods and disturbed ionospheric conditions possible for
mid-high

latitudes early in the week. No Short Wave Fadeouts are
expected.

courtesy of the IPS Radio and Space Services

summary by Pat VK2JPA ANARTS Broadcast Officer

VK2SG RTTY DX NOTES WEEK ENDING 18 MAY

Our information this week came from GU0SUP I5FLN DJ3IW
and OH2AQ's DX Summit.

Thank you all.

Bandpass

Friday 12

0012-14080 ST0RM

0620- 7081 KH6ZM

0647-10139 9A150NT

1111-14085 HI3TEJ

1148-14081 VU2GKJ

1345-14091 DS1OFE

1450-14088 4Z5AV

1514-14088 VR2XLN

1732-18102 TR8CA

1905-14082 FG5FI

1941-14078 ST0RM

1948-14080 XX9TVR

2006-14092 A45XR

2030-14080 P29ZAD

2055-14081 VQ9NL

2256-14085 TF3GC

2257-14089 HP1AC

2301-14086 7X2LS

2322-10142 HL5BDD

2328-10142 SV9CVY

Saturday 13

0446-14083 DQ2006N

0502-14083 YB5AQB

0712-50100 VR2XMT

0758-14080 P29ZAD

0953- 7026 DZ50C

0955-14084 EM61C

1026-21080 EA9IB

1033-14081 CN50FAR

1159-14098 OH0Z

1213-14086 ZL4BR

1214-14086 FR5GS

1258-14103 ZS2EZ

1306-14092 BD7KLO

1321-14097 VR2XMT

1328-14080 7X0RY

1403-14112 ZC4LI

1404-14075 OH0Z

1600-14074 YB2EMK

1602-14092 6K2DFG

1649-14090 4X6UU

1652-21082 CN8KD

1702-14111 9M2CNC

1723-14095 9M6/G3OOK

1802-14085 4Z5AV

1950- 7046 OH0Z

2034- 7032 UN7PBY

2042-21079 CX7BF

2103-14083 KH6GMP

2215-10131 WP3C

2238- 3597 UN7PBY

2240- 7037 EA6BH

2248-14089 IS0HQJ

2251-14081 YB2EMK

2303-14085 VK1AHS

2312-14082 CO2ZK

1331-14086 YB2ECG

1351-14089 CO2IZ

Sunday 14

0001-14078 OH0Z

0127- 7032 YT0TESLA

0145-14077 9M2CNC

0149- 7045 XE3RCC

0202-14080 ZL4BR

0204-14086 KH6GMP

0311- 7044 HR1RMG

0352- 7039 7X0RY

0517-14085 VK1AHS

0519- 7045 CM2ZT

0540-21089 UN6G

0548-21088 E21YDP

0559-28082 BD4SI

0636-21078 YB2EMK

0637-14081 7X0RY

0641-28086 4Z4TL

0648-21085 FR5GS

0721-14082 P29ZAD

0725-18101 RA2FS

0820-21078 VR2XLN

0837-21082 7X0RY

0920-14084 DV1JM

0945-14101 6W/HA7TM

1011-21080 9M6/G3OOK

1051-21080 3W6JR

1055-21081 CX7BF

1110- 7038 CO2IZ

1139-14075 CN8LI

1201-21082 UN4PG

1207-18100 DR2006S

1211-10142 DR2006S

1223-14083 DQ2006N

1232-14082 DQ2006U

1255-14081 DQ2006S

1319-14086 DQ2006K

1405-18111 DQ2006M

1414-18106 VR2XMT

1422-14084 CN50FAR

1435-14079 TI8CBT

1440-14089 HF80LKK

1548-24901 TR8CA

1655-14084 6K2DFG

1844-10143 TR8CA

1934-14084 OX3DB

2111-14084 FM1HN

2117-14082 EA9IB

2126-14082 HK4QMH

2302-14082 CE3DR

2356-14082 HP1JRA

Monday 15

0636- 7035 DR2006K

0702- 7036 DR2006N

0918-14092 DQ2006Y

0959-14080 OX3WS

1151-14087 3B9FR

1152-14085 DR2006B

1240-14080 DQ2006X

1307-18106 VR2XMT

1519-14081 UN8PIM

1538-14088 ST0RM

1732-14080 JW4GHA

1816-14082 CN50FAR

1900-14084 CU6NS

2046-14080 YM125ATA

2111-14082 OP0J

2147-14086 IS0AFM

2317-14084 OX3JZ

Tuesday 16

0032-14083 OX3DB

0525- 7036 DR2006K

0553-14077 DQ2006E

0642-14081 DR2006N

0912-14085 DR2006G

0926-14080 DQ2006X

0958-14083 XX9BB

1000-14087 JW0HZ

1125-14088 OX3WS

1215-14086 HK4QHD

1312-14080 VK2KM

1400-14084 6K2DFG

1432-14086 HS0ZBS

1441-14087 YB0EIN

1616-14081 ST0RM

1925-10142 C31BO

2010-10144 TR8CA

2040-14083 K0ARY/VP9

2053-14087 TF3AO

2118-10146 OX3DB

2155-14084 OX3WS

2215-14085 HI3TEJ

2355-10140 EA6AZ

Wednesday 17

0047-14088 FG5FI

0325-14086 3B9FR

0329-14087 5R8GZ

0743-14088 DQ2006Y

0803-14081 DQ2006N

0807-14083 DQ2006U

1125-14085 J5UTM

1155-14084 TF3PPN

1234-21095 9K2CQ

1239-14081 9M6/G3OOK

1246-14084 YB1AD

1247-14083 VR2XMT

1248-14083 E20WXA

1249-14081 9M6/G3OOK

1251-24900 9K2CQ

1257-14085 HS0ZBS

1301-14092 E21YDP

1314-18097 9K2CQ

1344-18097 6W2SC

1801-14083 BD7KLO

1919-14085 KP4ED

2111-14087 FM5AA

2128-14087 K0ARY/VP9

2200-14085 TN5H

2224-14083 EA6AZ

2251-14081 OX3WS

2350-14088 SV9CVY

Thursday 18

0800-14082 DR2006N

1136-14082 BD7KLO

1214-14090 DQ2006U

1232-14087 VR2XMT

1317-14079 DQ2006C

1337-14081 DR100NAU

1342-14078 DQ2006X

1459-14085 OX3WS

1615-14085 BX4AN

1735-14090 4Z5AV

1805-10140 TR8CA

1833-14087 CU6NS

1915-10144 C31BO

2026-14080 CU2/DL2OE

2054-14081 YM125ATA

2114-14082 PJ2MI

The VK2SG RTTY DX NOTES are distributed every week via the Winlink

network and are also available on the Internet at URL

http://mailman.qth.net/pipermail/vk2sg-rtty/

For next weeks bulletin send your bandpass and notes of interest to

Phil GU0SUP email pcooper at guernsey.net

GL with RTTY Don AA5AU

The Ohio/Penn DX Bulletin No. 759- excerpts

3rd EUROPEAN PSK DX CONTEST

The Scottish-Russian ARS has the honor of inviting the radio amateurs all over

the world to participate in the 3rd annual European PSK DX Contest (1200z

20.05.2006 - 1200z 21.05.2006). The objective of the contest is to establish

as many contacts as possible between radio amateurs around the world and radio

amateurs in Europe by using the BPSK31 mode. Everybody can work everybody for

QSO and multiplier credit. More information is available at

http://www.eu.srars.org

6W, SENEGAL (African Trip)

Tibi HA7TM and his wife are now in Dakar. Tibi was heard this past weekend on

17 and 12m CW signing 6W/HA7TM. The length of his stay is not certain. They

were to meet up with Peter HA3AUI (J5UAP) and stay with him and for about a

week. Then they were going to drive to Gambia (C5) and to Bissau Guinea (J5).

Tibi may be active as C5/HA7TM and J5TM (possibly J5TIB)
from those locations.

Tibis equipment is an IC-706, a 4 band vertical from
DunaX, and a few dipoles.

He wants to work on all HF bands including the WARC bands
on CW SSB RTTY and

PSK as well. QSL via the HA Bureau or direct via his
QRZ.com address.

CT3, MADEIRA ISLAND

Look for Karl OE3JAG to be active as CT3/OE3JAG from
Madeira Island (AF-014,

MA-001 for the Portuguese Islands Award, Grid Loc. IM12,
WLOTA LH-0053), May

15-22nd. Activity will be mainly QRP on 30 and 20m CW PSK
and RTTY using a

dipole or long-wire antenna. QSL via his home callsign,
direct or by the bureau.

FM, MARTINIQUE

Jacky F5OIU will be active as FM/F5OIU from Martinique
Island (NA-107) for a

holiday between May 13th and Jul 1st. Activity will be
mainly on CW but also

on the digital modes and SSB. He will use an IC-706 w/100
watts with FD3 and an

R5. QSL via his home callsigns, Bureau preferred.

HI, DOMINICAN REPUBLIC

Antonio IW2OAZ will be as HI8/IW2OAZ from May 18-30.
Activity will be on 80-6m

(modes not mentioned). On May 20 he will be activating
Catalina Island for 24

hours, IOTA reference NA-122.

IOTA NEWS

AS-080. Han DS2GOO will be active as DS2GOO/3 from Nok
Island (Nok Do) (WLOTA

LH-0754), May 18-21. Activity will be on 80-6m SSB RTTY
and PSK31. QSL via his

home callsign, by the bureau or direct. Visit his Web
page at:

http://myhome.naver.com/dxer2han/LHunderscore0754

JW, SVALBARD

Roger LA4GHA currently active as JW4GHA from Bear Island (EU-027), has

extended his stay until Jul (He was supposed to go QRT in June). During his

last month there he will focus on 6m. Listen to 50.110 MHz CW/SSB. If he is

not on 6m watch for activity on 160-2m on CW SSB and Digital modes. QSL via

his home callsign LA4GHA, by the bureau or direct to Roger Bjoergvik, The

Registry, Court of BiH, Kraljice Jelene 88, 71 000 Sarajevo, BiH.

LIGHTHOUSE ACTIVITY

Chris G1VDP informs OPDX that he will be operating from the Pendean Lighthouse

(ENG-101, Locator IO70ed) in Cornwall England May 31. During his portable

operation Chris will be using a FT897 into an ATAS 120 antenna with 100W outpu

on 40/20m and 10m if the band opens. He may also try some PSK31 on 40m if the

conditions will allow, and his Laptop stands up to it. Suggested frequencies

are 40m (7064 kHz +/- QRM), 20m (14265 kHz +/- QRM)

and 10m (28475 kHz +/- QRM).

A special QSL card will be available following the operation and will be sent

via the bureau (direct QSLs are to include SAE and return postage costs using

the (QRZ.com) address).

PI25, THE NETHERLANDS (Special Event)

During the month of May the VERON Department A54, 'Etten-Leur' will be

celebrating its 25th jubilee year. The club station PI4ETL will be using

the special callsign PI25ETL between Jun 24 and Jul 9. Club members will be

active with this special callsign on various HF and VHF bands during this

period and PI25ETL will participate in the IARU HF

Championships Jul 8-9

as a Multi-Single entry. A special 'Worked A54 Award' will become available

for working PI4ETL or PI25ETL during the months of May Jun and Jul. Details

can be obtained from PA0ATG at: pa0atg at amsat.org

RUSSIA NEWS

It has been reported that some changes have taken place for Russian amateurs

(as of 'a couple of weeks ago). Russian amateurs can now run a KW and also

operate up to 7.200 MHz with the government there providing these new

operating factors. This news is only true for the former Soviet state we now

call Russia and not necessarily the other former Soviet states.

VI9, NORFOLK ISLAND (Pitcairner landing celebrations by Jim Smith VK9NS)

'Although I have lived on Norfolk for almost 26 years and Kirsti many more

years neither of us are Norfolk Islanders. Jun of this year marks the 150th

Anniversary of the landing of the people of Pitcairn Island, the descendants

of the Bounty Mutineers on Norfolk Island. The discovery of Pitcairn Island

with its 'lost' population is a whole saga in itself. The subsequent movement

of this population was sanctioned by Queen Victoria. The British government

then arranged their transport to and settlement on the vacant possession of

Norfolk Island. (Some Pitcairners subsequently wished to return 'home' to

Pitcairn. This was allowed and carried out on a one off and final basis.

Hence the current Christian and Young, etc, families resident on Pitcairn

Island.) The celebration of this unique migration is special to the Norfolk

Islanders (those of Pitcairn descent) and there are many things being

planned. It will be a very interesting period.

To help celebrate the event the HIDXA Club has been issued with the special

callsigns of VI9NL and VI9NS for the whole month of June covering the period

of the celebrations. Kirsti VK9NL and I VK9NS will use these special calls

and will both try to be as active as possible during the period. For the

record, the HIDXA Club was created some 23 years ago after the return from

Heard Island, and is registered on Norfolk Island....'

73 Jim, VK9NS

VI9, NORFOLK ISLAND

Bill VK4FW informs OPDX that all equipment has now been sent to Norfolk Island

in readiness for their arrival of the team on May 24. The team consists of

Ron/VE7NS Gary/ZL2IFB Phil/VK2BAA Eddie/ VK4AN Merve/VK4DV John/VK5PO and

Bill/VK4FW. Bill states, 'We have been very fortunate to have the use of our

special callsign VI9NI. This has been issued to help celebrate the 150th

anniversary of the landing of the 'HMS Bounty Mutineers.' Suggested operating

frequencies are

CW - 1822 3523
7023 10103 14023 18073 21023 24893 28023 and 50125

SSB - 1822 3785
7093 14195 18140 21295 24940 28475 and 50125

RTTY - 10103 14084 21084 and 28084 kHz

YO, ROMANIA

Jean Michel F6AJA French DX Editor of the Les Nouvelles DX will once again

be active as YO/F6AJA from May 22-28 from YO8FZ's station during my free time.

The Society can be contacted in the following ways

To Pat VK2JPA via patleeper at optusnet.com.au or

Col VK2CTD via ctdavies at bigpond.net.au or

you can drop a line to PO Box 93 Toongabbie NSW 2146.

73’s for this week from Pat VK2JPA Broadcast Officer.

NNNN